

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077270.D
 Acq On : 07 Apr 2023 10:46
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

Quant Time: Apr 07 11:22:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 10:13:15 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.825	128	59410	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	433554	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	494897	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	152230	27.877	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.933%		
60) 4-Bromofluorobenzene	12.848	95	275054	29.365	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.900%		
63) Toluene-d8	10.572	98	512191	29.425	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.067%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	591188	77.762	ug/l	99
3) Chloromethane	2.372	50	696995	100.306	ug/l	97
4) Vinyl Chloride	2.519	62	1035417	163.404	ug/l	94
5) Bromomethane	2.931	94	676843m	167.032	ug/l	
6) Chloroethane	3.113	64	684214	183.759	ug/l	96
7) Trichlorofluoromethane	3.496	101	972586	82.162	ug/l	97
8) Diethyl Ether	3.966	74	427028	96.193	ug/l	69
9) 1,1,2-Trichlorotrifluo...	4.372	101	616701	91.961	ug/l	98
10) 1,1-Dichloroethene	4.343	96	620266	95.293	ug/l	84
11) Methyl Iodide	4.595	142	807646	102.976	ug/l	91
12) Methyl Acetate	5.031	43	970782m	90.678	ug/l	
13) Acrolein	4.184	56	591997	374.043	ug/l	100
14) Acrylonitrile	5.725	53	1676204	475.290	ug/l	99
15) Acetone	4.431	58	543146	565.900	ug/l	74
16) Carbon Disulfide	4.719	76	1642953	91.031	ug/l	96
17) Allyl chloride	5.031	41	838380m	85.875	ug/l	
18) Methylene Chloride	5.284	84	724458	95.154	ug/l #	79
19) trans-1,2-Dichloroethene	5.789	96	697923	101.758	ug/l	88
20) Diisopropyl ether	6.678	45	1986953	90.216	ug/l #	86
21) 1,1-Dichloroethane	6.572	63	1263503	96.402	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	861894	109.656	ug/l	88
23) tert-Butyl Alcohol	5.531	59	691253	674.890	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	2325628m	109.587	ug/l	
25) Chloroform	7.972	83	1344915	99.891	ug/l	99
26) Cyclohexane	8.260	56	1079429	90.204	ug/l #	77
29) 1,1-Dichloropropene	8.378	75	1015520	99.444	ug/l	97
30) 2-Butanone	7.484	43	2262517	485.619	ug/l #	85
31) 2,2-Dichloropropane	7.495	77	1241973	122.754	ug/l #	60
32) 1,1,1-Trichloroethane	8.172	97	1218076	102.262	ug/l	94
33) Carbon Tetrachloride	8.366	117	1057955	100.449	ug/l	97
34) Benzene	8.613	78	3049745	97.414	ug/l	96
35) Methacrylonitrile	7.783	41	446929	85.251	ug/l	80
36) 1,2-Dichloroethane	8.672	62	970580	92.492	ug/l	96
37) Trichloroethene	9.354	130	748418	96.993	ug/l	98
38) Methylcyclohexane	9.601	83	1361496	107.112	ug/l	91
39) 1,2-Dichloropropane	9.625	63	759234	94.387	ug/l	95
40) Dibromomethane	9.713	93	551881	107.693	ug/l	96
41) Bromodichloromethane	9.889	83	1095634	104.324	ug/l	99
42) Vinyl Acetate	6.613	43	6920123	476.493	ug/l #	88

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	896726	95.386	ug/l	96
44) Isopropyl Acetate	8.689	43	1559057	102.304	ug/l	90
45) 1,4-Dioxane	9.701	88	319163	2489.509	ug/l #	88
46) Methyl methacrylate	9.683	41	663030	89.340	ug/l	76
47) n-amyl Acetate	12.495	43	1458143	117.573	ug/l	97
48) t-1,3-Dichloropropene	10.836	75	1285643	122.220	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	1346624	112.712	ug/l #	87
50) 1,1,2-Trichloroethane	11.019	97	801657	106.781	ug/l	96
51) Ethyl methacrylate	10.877	69	1291834	116.721	ug/l	81
52) 1,3-Dichloropropane	11.166	76	1343212	103.586	ug/l	99
53) Dibromochloromethane	11.360	129	875199	114.272	ug/l	99
54) 1,2-Dibromoethane	11.471	107	821648	113.414	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	2244792	578.482	ug/l	96
56) Bromoform	12.583	173	602886	117.661	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	4684519	468.566	ug/l #	83
59) 2-Hexanone	11.195	43	3555051	500.568	ug/l #	86
61) Tetrachloroethene	11.107	164	586761	75.104	ug/l #	88
62) Toluene	10.630	91	3554901	104.245	ug/l	100
64) Chlorobenzene	11.895	112	2173169	108.261	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	793603	105.259	ug/l	95
66) Ethyl Benzene	11.966	91	4054701	109.516	ug/l	96
67) m/p-Xylenes	12.071	106	3152596	224.794	ug/l	99
68) o-Xylene	12.401	106	1577564	115.217	ug/l	98
69) Styrene	12.413	104	2623700	118.149	ug/l	99
70) Isopropylbenzene	12.701	105	4069991	114.243	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	1227477	114.273	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	709869m	72.041	ug/l	
73) Bromobenzene	12.983	156	822627	102.324	ug/l	91
74) n-propylbenzene	13.042	91	4732344	112.537	ug/l	99
75) 2-Chlorotoluene	13.130	91	2729567	104.961	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	3404205	110.399	ug/l	95
77) t-1,4-Dichloro-2-butene	12.742	75	461378	153.386	ug/l	83
78) 4-Chlorotoluene	13.224	91	2690349	107.320	ug/l	96
79) tert-butylbenzene	13.442	119	2877068	111.573	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	3397639	112.121	ug/l	96
81) sec-Butylbenzene	13.618	105	4288114	116.228	ug/l	99
82) p-Isopropyltoluene	13.730	119	3503891	117.508	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	1641133	110.328	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	1610654	111.471	ug/l	96
85) n-Butylbenzene	14.060	91	3127041	123.722	ug/l	98
86) Hexachloroethane	14.336	117	708070	132.996	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	1603221	108.080	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	248525	118.789	ug/l	92
89) 1,2,4-Trichlorobenzene	15.371	180	786093	99.343	ug/l	98
90) Hexachlorobutadiene	15.465	225	336799	80.735	ug/l	96
91) Naphthalene	15.589	128	2980010	118.737	ug/l	98
92) 1,2,3-Trichlorobenzene	15.754	180	747686	94.254	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

